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$C_7H_5O_5N$. (a) *m*-Nitrosalicylic acid. *H. B. Hill*, *C. A. Soch*, and *G. Oenslager*.. 9
Prep. from nitromalonic aldehyde and acetacetic ester, M. P., prep. of silver salt.

$C_7H_6O_6N_2$. Dinitroguaiacol. *W. B. Bentley*..... 177
Prep. by action of nitric acid on nitrovanillin, properties, M. P.

$C_7H_7O_3N$. (a) *m*-Nitroorthocresol. *H. B. Hill*, *C. A. Soch*, and *G. Oenslager*.... 4
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$C_7H_7O_3N$. Salicylhydroxamic acid. *A. Tingle*..... 56
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$C_7H_9O_2NS$. Ethylacetylthioncarbamate. *H. L. Wheeler* and *T. B. Johnson*.... 200
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$C_7H_{11}O_2NS$. Methyl α-sulphocyanisovaleriate. *H. L. Wheeler* and *B. Barnes*.. 81
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C_8-GROUP.

$C_8H_5O_4N$. Lactone of the 5-nitro-2-oxyphenylacetic acid. *H. B. Hill, C. A. Soch,* and *G. Oenslager*... 11
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$C_8H_7O_6N$. 5-Nitro-2-oxyphenylacetic acid. *H. B. Hill, C. A. Soch,* and *G. Oenslager*..... 10
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$C_8H_7O_5N$. Nitrovanillin. *W. S. Bentley*..... 172
Prep. from vanillin and conc. nitric acid, M. P., solubility, reactions with metallic salts, formation, solubility and properties of the potassium salt.

$C_8H_7O_6N$. Nitrovanillic acid. *W. B. Bentley* 179
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$C_8H_7O_8N$. 2,6-Dicarboxy-4-nitrophenol. *H. B. Hill, C. A. Soch,* and *G. Oenslager*..... 13
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$C_8H_8O_2N_2$. Benzoylurea. *H. L. Wheeler* and *T. B. Johnson*..... 203
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C_8H_9ONS. Thioncarbanilicmethyl ester. *H. L. Wheeler* and *B. Barnes*..... 70

C_8H_9ONS. Thiolcarbanilicmethyl ester. *H. L. Wheeler* and *B. Barnes* 71
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$C_8H_{10}ON_2S$. Phenylthiolcarbazinicmethyl ester. *H. L. Wheeler and B. Barnes* 66
Prep. from the thion ester and methyl iodide.

$C_8H_{10}ON_2S$. Phenylthioncarbazinicmethyl ester. *H. L. Wheeler* and *B. Barnes*..... 67
Prep. from methylethyldithiocarbonate and phenyl hydrazine, M. P.

$C_8H_{12}O_2NS$. Isobutyl-α-sulphocyanpropionate. *H. L. Wheeler* and *B. Barnes*.. 77
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$C_9H_{14}O_2$. Cistranscampholytic acid. *W. A. Noyes* and *E. F. Phillips*..... 290
Prep. from the dihydroamino acid, and specific rotatory power.

$C_9H_{16}O_2$. Dihydrohydroxycampholytic acid. *W. A. Noyes* and *E. F. Phillips*. 290
Prep. from the hydroamino acid, solubility, and specific rotatory power.

9 III.

$C_9H_7O_2N$. Phenylisoxazole. *A. Tingle*..... 55
Prep. from ethylic cinnamate and aniline, properties.

$C_9H_8O_6N_4$. Trinitropropionic aldehyde anil. *J. Torrey, Jr.* and *O. F. Black*.... 459
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$C_9H_{10}O_2N_2$. Benzoylpseudomethylurea. *H. L. Wheeler* and *T. B. Johnson*..... 217
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$C_9H_{11}O_2N$. Methyl methylcarbanilate. *H. L. Wheeler* and *G. K. Dustin*..... 433
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$C_9H_{15}O_2Br$. β-Bromdihydrocampholytic acid. *W. A. Noyes* and *E. F. Phillips*. 291
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$C_9H_{17}O_2N$. Dihydroaminocampholytic acid. *W. A. Noyes* and *E. F. Phillips*.. 290
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$C_9H_7O_6N_4K$. Monopotassium trinitropropionicaldehyde anil. *J. Torrey, Jr.*, and *O. F. Black* 460
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$C_9H_9O_2NS$. Methyl benzoylthioncarbamate. *H. L. Wheeler* and *T. B. Johnson* 201
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$C_9H_9O_2NS$. Methyl benzoylthiolcarbamate. *H. L. Wheeler* and *T. B. Johnson*. 201
Prep. from the thion compound, properties, and M. P.

$C_9H_{11}ONS$. Methyl methylthioncarbanilate. *H. L. Wheeler* and *G. K. Dustin*. 433
Prep. from thiophosgene, properties, and M. P.

$C_9H_{11}ONS$. Methyl methylthiolcarbanilate. *H. L. Wheeler* and *G. K. Dustin*. 434
Prep. from thion ester, properties, and M. P.

$C_9H_{11}ONS$. Dimethylphenylimidothiolcarbonate. *H. L. Wheeler* and *G. K. Dustin*..... 435
Prep. from thioncarbanilate, B. P.

$C_9H_{12}ON_2S$. Phenylthioncarbazinicethyl ester. *H. L. Wheeler* and *B. Barnes*. 65
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$C_9H_{12}ON_2S$. Phenylthiolcarbazinicethyl ester. *H. L. Wheeler* and *B. Barnes*. 66
Prep. from the thion ester and ethyl iodide.

$C_9H_{12}O_9N_4K_2$. Dipotassium trinitropropionicaldehyde anil. *J. Torrey, Jr.*, and *O. F. Black*..... 459
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$C_9H_{12}O_2NS$. Isoamyl α-sulphocyanpropionate. *H. L. Wheeler* and *B. Barnes* 77
Prep. from the brom ester and potassium sulphocyanide.

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$C_{10}H_{10}O_6H_4$. Trinitropropionic aldehyde *p*-tolil. *J. Torrey, Jr.*, and *O. F. Black* 461
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$C_{10}H_{11}O_5N$. 5-Nitro-2-oxyphenylaceticethyl ester. *H. B. Hill, C. A. Soch*, and *G. Oenslager* 12
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$C_{10}H_{12}O_2N_2$. α,β-Benzoylethylurea. *H. L. Wheeler* and *T. B. Johnson*..... 218
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$C_{10}H_{12}O_2N_2$. Benzoylpseudoethylurea. *H. L. Wheeler* and *T. B. Johnson*..... 205
Prep. from ethyl benzoylthioncarbamate, properties, and M. P.

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$C_{10}H_9O_2NS$. *n*-Phenyl-α-μ-diketo-β-methyltetrahydrothiazole. *H. L. Wheeler* and *B. Barnes*..... 75
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$C_{10}H_9O_6N_4K$. Monopotassium trinitropropionic aldehyde *p*-tolil. *J. Torrey, Jr.*, and *O. F. Black*..... 462
Prep. from the dipotassium salt, Ba salt.

$C_{10}H_{10}O_2N_2S$. Ethoxyphenylthiobiazolone. *H. L. Wheeler* and *B. Barnes*..... 67
Prep. from the thioncarbazinic ester and phosgene, M. P.

$C_{10}H_{11}O_2NS$. Methyl acetylthioncarbanilate. *H. L. Wheeler* and *G. K. Dustin* 437
Prep. from the silver salt of methylthloncarbanilate, properties, M. P.

$C_{10}H_{11}O_2NS$. Methyl acetylthioncarbanilate. *H. L. Wheeler* and *G. K. Dustin* 437
Prep. from the silver salt of methyl thioncarbanilate, properties, M. P.

$C_{10}H_{13}ONS$. Methyl N-ethylthioncarbanilate. *H. L. Wheeler* and *G. K. Dustin* 434

$C_{10}H_{13}ONS$. Ethyl methylthioncarbanilate. *H. L. Wheeler* and *G. K. Dustin*.. 433
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$C_{10}H_9O_4NS$. Benzoylcarbaminthioglycollic acid. *H. L. Wheeler* and *T. B. Johnson*... 202
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$C_{10}H_{11}O_2NS$. Ethyl benzoylthioncarbamate. *H. L. Wheeler* and *T. B. Johnson* 202
Prep. from potassium sulphocyanide, properties, and M. P.

$C_{10}H_{11}O_2NS$. Dimethyl benzoylimidothiocarbonate. *H. L. Wheeler* and *T. B. Johnson*..... 214
Prep. from methyl benzoylthioncarbamate, properties.

C_{11}-GROUP.

$C_{11}H_{13}ON_3$. 1-Phenyl-5-methyl-3-ethoxytriazole. *H. L. Wheeler* and *T. B. Johnson*..... 213
Prep. from ethyl acetylthioncarbamate and phenylhydrazine, properties, and M. P.

$C_{11}H_{14}O_2N_2$. Benzoylpseudomethylethylurea. *H. L. Wheeler* and *T. B. Johnson* 217
Prep. from benzoylimidomethylthiolisopropyl carbonate and ammonia, properties.

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$C_{11}H_{13}O_2NS$. Isopropylbenzoylthiolcarbamate. *H. L. Wheeler* and *T. B. Johnson* 215
Prep. from the salts of methyl benzoylthioncarbamate, properties, and M. P.

$C_{11}H_{13}O_2NS$. Benzoylimidomethylthiolethylcarbonate. *H. L. Wheeler* and *T. B. Johnson*..... 214
Prep. from methyl benzoylthioncarbamate, properties, B. P.

$C_{11}H_{15}ONS$. Diethylphenylimidothiolcarbonate. *H. L. Wheeler* and *G. K. Dustin*..... 437
Prep., properties, and B. P.

$C_{11}H_{15}ONS$. Thioncarbanilicisobutyl ester. *H. L. Wheeler and B. Barnes*..... 72
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$C_{11}H_{16}ON_2S$. Phenylhydrazone of diethylthioncarbonic ester. *H. L. Wheeler* and *B. Barnes*..... 68
Prep. from phenylthioncarbazinicethyl ester and phenyl hydrazine, properties, and M. P.

C_{12}-GROUP.

$C_{12}H_{16}O_2N_2$. Benzoylisobutylurea. *H. L. Wheeler* and *T. B. Johnson*..... 218
Prep. from isobutylamine, properties, and M. P.

12 IV.

$C_{12}H_{15}O_2NS$. Isobutylbenzoylthiolcarbamate. *H. L. Wheeler* and *T. B. Johnson* 216
Prep. from benzoylimidomethylthiolisobutylcarbonate, properties, and M. P.

$C_{12}H_{15}O_2NS$. Benzoylimidomethylthiolisopropylcarbonate. *H. L. Wheeler* and *T. B. Johnson*..... 215
Prep. from methylbenzoylthioncarbamate, properties.

$C_{12}H_{15}O_2NS$. Diethylbenzoylimidothiocarbonate. *H. L. Wheeler* and *T. B. Johnson* 213
Prep. from benzoylthioncarbamic ester, properties, and B. P.

$C_{12}H_{15}O_2N_3S_2$. *c*-Acetylsulpho-*b*-phenyl-*a*-semicarbazidithiolethyl ester. *H. L. Wheeler* and *G. K. Dustin* 439
Prep. from thiolphenylcarbazinic ethyl ester and acetyl rhodanide, M. P.

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$C_{13}H_9O_5N$. 2-Nitrophenylether-4'-carbonic acid. *A. N. Cook* and *H. W. Hillyer* 527
Prep. from the ether by oxidation, salts of the acid.

$C_{13}H_{11}O_2N$. Salicylanilide. *A. Tingle.* 58
Prep. from methylic salicylate and aniline, properties, and M. P.

$C_{13}H_{11}O_3N$. 2-Nitro-4'-methylphenylether. *A. N. Cook* and *H. W. Hillyer* 526
Prep. from *o*-bromnitrobenzene and potassium *p*-cresolate, properties, and M. P.

$C_{13}H_{13}ON$. 2-Amido-4'-methylphenyl ether. *A. N. Cook* and *H. W. Hillyer* ... 529
Prep. from the nitro ether, properties, and M. P.

$C_{13}H_{18}O_2N_2$. Benzoylpseudomethylisobutylurea. *H. L. Wheeler* and *T. B. Johnson* 218

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$C_{13}H_9O_6NS$. Paranitroorthophenylsulphonebenzoic acid. *R. S. Norris*..... 482
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$C_{13}H_{11}O_4NS$. Paranitroorthotolylphenylsulphone. *R. S. Norris* 474
Prep. from the chloride, action with sulphuric acid, potassium hydroxide, and reducing and oxidizing agents.

$C_{13}H_{13}O_2NS$. Paraamidoorthotolylphenylsulphone. *R. S. Norris*..... 480
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$C_{13}H_{17}O_2NS$. Benzoylimidomethylthiolisobutylcarbonate. *H. L. Wheeler* and *T. B. Johnson*..... 216

$C_{13}H_{17}O_3NS$. Carbanil-*a*-thioisobutyricethyl ester. *H. L. Wheeler* and *B. Barnes*..... 75
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13 V.

$C_{13}H_8O_6NClS$. Paranitroorthotoluenesulphone chloride. *R. S. Norris*..... 474
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$C_{13}H_8O_6NClS$. *p*-Nitro-*o*-phenylsulphonebenzoyl chloride. *R. S. Norris*..... 485
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C_{14}-GROUP.

$C_{14}H_{11}O_4N_3$. Benzoylmetanitrophenylurea. *H. L. Wheeler* and *T. B. Johnson*. 221
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$C_{14}H_{12}O_2N_2$. Benzoylphenylurea. *H. L. Wheeler* and *T. B. Johnson* 209
Prep. from aniline and ethyl benzoylthioncarbamate, properties, and M. P.

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$C_{14}H_{14}ON_2S$. Phenylthiolcarbazinicbenzyl ester. *H. L. Wheeler* and *B. Barnes* 67
Prep. from the thion ester and benzyl chloride, M. P.

$C_{14}H_{19}O_2NS$. Benzoylimidomethylthiolisoamyl carbonate. *H. L. Wheeler* and *T. B. Johnson* 216
Prep. and properties.

$C_{14}H_{21}ONS$. Phenylimidothiolisoamylethyl carbonate. *H. L. Wheeler* and *G. K. Dustin* 437
Prep. from the ethyl thioncarbanilate and amyl bromide, M. P.

C_{15}-GROUP.

$C_{15}H_{13}ON_3$. 1,5-Diphenyl-3-ethoxytriazole. *H. L. Wheeler* and *T. B. Johnson*... 212
Prep. from methyl benzoylthioncarbamate, properties, and M. P.

$C_{15}H_{13}O_4N_3$. Benzoylpseudomethyl-*m*-nitrophenylurea. *H. L. Wheeler* and *T. B. Johnson* 221
Prep. and properties.

$C_{15}H_{14}O_2N_2$. Benzoylpseudomethylphenylurea. *H. L. Wheeler* and *T. B. Johnson* 219
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$C_{15}H_{14}O_3N_2$. Benzoylparamethoxyphenylurea. *H. L. Wheeler* and *T. B. Johnson* 211
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$C_{15}H_{14}O_2N_2$. Benzoylparatolylurea. *H. L. Wheeler* and *T. B. Johnson*..... 209
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$C_{15}H_{14}O_2N_2$. Benzoylbenzylurea. *H. L. Wheeler* and *T. B. Johnson* 208
Prep. from ethyl benzoylthioncarbamate and benzylamine, properties, and M. P.

$C_{15}H_{15}O_8N_5$. Aniline salt of trinitropropionic aldehyde. *J. Torrey, Jr.*, and *O. F. Black* 458
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$C_{16}H_{23}ON$. Diisobutylbenzamide. *H. L. Wheeler* and *T. B. Johnson*..... 207
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$C_{15}H_{13}O_2NS$. Methylbenzoylthiolcarbanilate. *H. L. Wheeler* and *G. K. Dustin*. 437
Prep. from dimethylphenylimidothiolcarbonate and benzyl chloride, properties, and M. P.

$C_{15}H_{13}O_2N_3Cl$. Benzoylpseudomethyl-*m*-chlorphenylurea. *H. L. Wheeler* and *T. B. Johnson* 220
Prep. from metachloraniline and benzoylimidomethylthiolethyl carbonate.

C_{16}-GROUP.

$C_{16}H_{14}O_2N_2$. Diphenyldiketopiperazine. *M. Kuhara* and *M. Chikashigé*..... 167
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$C_{16}H_{15}O_2N_3$. α-Ethoxy-α-phenylimido-β-phenyloxybiazoline. *H. L. Wheeler* and *G. K. Dustin*..... 442

$C_{16}H_{16}O_2N_2$. Benzoylpseudoethylphenylurea. *H. L. Wheeler* and *T. B. Johnson* 219
Prep. from aniline and benzoylimidothioldiethylcarbonate.

$C_{16}H_{16}O_2N_2$. α-β-Benzoylmetaxylylurea. *H. L. Wheeler* and *T. B. Johnson*..... 210
Prep. from ethyl benzoylthioncarbamate and dimethylaniline, properties, and M. P.

$C_{16}H_{16}O_4N_2$. Tartranilide. *A. Tingle*..... 53
Prep. from ethylic tartrate and aniline, properties, and M. P.

16 IV.

$C_{16}H_{13}O_2NS$. Methyldibenzoylthioncarbamate. *H. L. Wheeler* and *T. B. Johnson*.. 203
Prep. from the benzoyl compound, properties, and M. P.
$C_{16}H_{16}O_2N_2S$. α-Benzoylphenylthioncarbazinicethyl ester. *H. L. Wheeler* and *B. Barnes*..... 68
Prep. from thioncarbazinic ester and benzoyl chloride.
$C_{16}H_{16}O_2N_2S$. α-Benzoylphenylthiolcarbazinicethyl ester. *H. L. Wheeler* and *B. Barnes* 70
Prep. from phenylhydrazone of diethylthioncarbonic ester and benzoyl chloride, properties, and M. P.
$C_{16}H_{17}O_2N_3S$. *c,b*-Diphenyl-*a*-semicarbazidicthionethyl ester. *H. L. Wheeler* and *G. K. Dustin* 439
Prep. from ethylthionphenylcarbazinate and phenyl isocyanate, M. P.
$C_{16}H_{24}ON_2S$. Benzoyldiisobutylthiourea. *H. L. Wheeler* and *T. B. Johnson*.... 206
Prep. from ethyl benzoylthioncarbamate and diisobutylamine, properties, and M. P.

C_{17}-GROUP.

$C_{17}H_{13}ON$. Benzoyl-β-naphthalide. *H. L. Wheeler* and *T. B. Johnson* 218
Prep. from methyl benzoylthioncarbamate and β-naphthylamine, properties, and M. P.
$C_{17}H_{18}O_2N_2$. Benzoylpseudocumylurea. *H. L. Wheeler* and *T. B. Johnson* 221
Prep. from benzoylimidothiolmethyl carbonate and pseudocumidine, M. P.
$C_{17}H_{19}O_6N_5$. *p*-Toluidine salt of trinitroaldehyde *p*-tolil. *J. Torrey, Jr.*, and *O. F. Black*..... 461
Prep. from dipotassium trinitropropionic aldehyde and *p*-toluidine hydrochloride.

17 IV.

$C_{17}H_{17}O_2N_3S_2$. *c*-Benzoylsulpho-*b*-phenyl-*a*-semicarbazidicthiolethyl ester. *H. L. Wheeler* and *G. K. Dustin*..... 439
Prep. from benzoyl rhodanide and ethylthiolphenylcarbazinate, M. P.
$C_{17}H_{19}O_{21}N_3S$. Thiolmethylethylcarbonic esterdiphenylsemicarbazone. *H. L. Wheeler* and *G. K. Dustin* 441
Prep. from diphenylsemicarbazidicthionethyl ester, M. P.

C_{18}-GROUP.

$C_{18}H_{12}O_2$. *a*-Diphenylbenzoquinone. *H. B. Hill, C. A. Soch*, and *G. Oenslager*..
Prep. from the amidophenol by oxidation, solubility, and M. P.
$C_{18}H_{14}O_2$. (*a*)-Diphenylhydroquinone. *H. B. Hill, C. A. Soch*, and *G. Oenslager* 8
Formation by reduction of the quinone, solubility, M. P., oxidation-product.

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$C_{18}H_{13}O_3N$. 2,6-Diphenyl-4-nitrophenol. *H. B. Hill, C. A Soch*, and *G. Oenslager*..... 5
Formation of sodium nitromalonic aldehyde and dibenzylketone, solubility, M. P., preparation of potassium salt, methyl derivative, and reduction- and oxidation-products.

$C_{18}H_{14}O_2N_2$. Benzoyl-α-naphthylurea. *H. L. Wheeler* and *T. B. Johnson* 211
Preparation from the carbamate and α-naphthylamine, properties, and M. P.

$C_{18}H_{15}ON$. 2,6-Diphenyl-4-amidophenol. *H. B. Hill, C. A. Soch.* and *G. Oenslager* 7
Formation by reduction of nitrophenol, solubility, and M. P.

$C_{18}H_{20}O_2N_2$. Benzoylpseudomethylpseudocumylurea. *H. L. Wheeler* and *T. B. Johnson* 221
Prep. from benzoylimidothiolmethyl carbonate and pseudocumidine.

18 IV.

$C_{18}H_{21}O_2N_3S$. Thioldiethylcarbamicesterdiphenylsemicarbazone. *H. L. Wheeler* and *G. K. Dustin* 441
Prep. from thionsemicarbazidicethyl ester, properties, and M. P.

C_{19}-GROUP.

$C_{19}H_{15}O_3N$. 2,6-Diphenyl-4-nitroanisol. *H. B. Hill, C. A. Soch*, and *G. Oenslager* 7
Prep. by action of methyl iodide on potassium 2,6-diphenyl-4-nitrophenylate, properties, and M. P.

$C_{19}H_{20}O_2N_2$. Benzoylpseudomethyldiisoamylurea. *H. L. Wheeler* and *T. B. Johnson* 218
Prep. and properties.

C_{21}-GROUP.

$C_{21}H_{17}ON_3S$. α-Benzylmercapto-α'-phenylimido-β'-phenyloxybiazoline. *H. L. Wheeler* and *G. K. Dustin* 442
Prep. from diphenylsemicarbazidicthionethyl ester and benzylchloride. M. P.

C_{22}-GROUP.

$C_{22}H_{18}O_4N_4$. Dibenzoylphenylenediurea. *H. L. Wheeler* and *T. B. Johnson* 212
Prep. from ethylbenzoylthioncarbamate and orthophenylenediamine, properties, and M. P.

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